UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

1979
(ARCTIC)

5102

~~5103~~

~~5104~~

~~5105~~

~~5106~~

~~5107~~

~~5108~~

5109

Arctic
June 12

Leave Montreal at 10:10 a.m.
Nenda air
Arrive Frobisher Bay 12:30 p.m.
Temp 36°F.
Hears DeBruyn's luggage lost at Resolute
Arrive Resolute 3:05 p.m.
Temp 22° F
Dorm room at Polar Continental Shelf Headquarters.
Checked boxes

June 13.
Day at Resolute
Rechecked and Inventoried boxes for shipment by Twin Otter
Sent letters
Quiet day.

Film #2 Resolute
Trip N. to
Axel Heiberg

Landing in STRAND Fjord Ax. Hei
at 2:30
Set up camp until 12 p.m.
Ice of Ice Bergs in fjord

Dx Hei - Strand Fiord

Leave Rave at 6:45

Madio. at 7. -5°C

Purple Sandstone just starting to show on rocky cliffs

Terraces facing S. toward fiord.

S. oppositifolia -

Light snow & sun.

JUNE 14-

7-91 SIKANO FLOAD

S E TRACING BANK ON

STREAM

Meta

Seq. of Sumber shales

& x bedded Ewv

Buff SS 1.5-10' Thick

Bare x-bed. frag. massive

Sec, x-bedded then

11 bedded upward

5100 Plant in bloom

SE facing shady

rocky Dark Brown

loose slope.

Pls. in Siderite

Fern

Mertensia

Crucifer.

Branch humilis

Dorsi Subsp. LATICA

6/14/79

-3°C

792 STRAND FIORD

2836 m aborch
~~3545 m~~ aborch

Clay iron stone nodules
in coal just below

Fossil Corals, Brachiopods
Large Ins.

Zeikovia ? Ulmus Type leaf
& Sp.

Lower (2) Fuel Coal Fm.
ALTERNATING Sequence of
Coal, Shale, Sandstone

Sequence goes

SS, Fg, friable, med grey

Coal - some beds to 10' thick
Shale - dark grey, chippy, carb
SLTST or mudst

SS - yellow, x bedded, massive
toward base, ~~x~~ bedding
in middle, to ~~x~~ to
bed ~~x~~ bedding finer
grained toward top.
Basal Contact ~~x~~ gradational

Lower part of Fm. Seems

6/14/79

Jug Conodont at Shale Interbeds

Fossil Plants occur in
Siltstone Concretionary beds
in Shales below coal

6/13/

6/15/79 On N side of Strand Fjord, Axel Heiberg I.

Snow in AM accumulating to 4". Temp From -6°C to +7°C
Fairly uneventful day.
Cleared after Lunch - spectacular views. Discussed Gladstone Harris Dibbon quiet reso-

6/16/79

Roll 3 # 22

Lower Eureka Sound Fm.
Coals in middle cliff
Ice Berg
Stabland Fjord

2268 [illegible]

3 #23 Sulky ... ES Fm

Temp. 0°C
6/16/79
Cloudy

794 ~~Hwy~~ Axis of Syncline
1-2' ~~dust~~ Above 8' COAL STRM
Pollen Sample in
Lig. Shales above
Mega fossils.
Misoacyt
Osmunda Groenlandica
Glyptostrobus ?

795 - Up slope abt 300' NW of
JUNCTION of 2 STREAMS.

796A 15' BITUMINOUS COAL SEAM
in SS-Sh fluv. Seq.
Climber 8' from top of Coal

796B FROM SIDERITIC Ledge
~~10'~~ below 796A

Comptonia sp.

AT LEAST 300' below
794 in SIDERITIC ZT
Top of Av. Lumpbre
Coal
INCISED EGG
Concretionary

16
6/16/79

797 Sequoia conc. in float
and stream ss.

In ss. in place in a
siliceous sequence
to below 797

Metasequoia
(Cretaceous/Jurassic) fragments
in conc.

Slope 500' (map) above
797
Conifer wood in
1mm growth rings

6/17/79

798 From conc. to 798 where
all Triassic ss is Precambrian
... Sierra Nevada Below (SIERRA)
All ss are Triassic &
Jcgt, is finer grained and
more siliceous.
Dip: 78° S

6/17/79

Up stream formerly [illegible]
Delta

798

Dip [illegible]

[illegible] SS ledge
in shale, 5' high
alt. sec.
Dip - 100' N = 78°

Roll 3 to 28 about 500' N of
798 Rec contemporaneous
folding of SS.

799 Ripple mark current ripples
Dip 89.5° in SS. ledge.

[illegible] top 2'
Buff wh. 6' thick SS
massive
[illegible]
[illegible]
2' SW to ripple

800 notes on preceding page

6/17/79

PX 32

Caliche 200' Uphill from
Dip SI's Point.
Cobbles in Terrace gravel

7911 Mancos Sh + Sst. Brownish
Grey to Medium Dark
Grey Silty
Shale with
Interbedded Fine
Grained Sandstone
Beds. Sandstone
Beds Are Light
Brownish Grey
Weathering

This bed contains
Inoceramus up To
1½' in diameter

This is well within the
Kanguk Fm. Mostly marine
shales but contains SS
Beds. Each bed is light
brownish grey

7912 Mapped Base of Eureka Sst.
Fm. Yellowish SS w
Cliff forming. Yellowish
to buff

6/17/79

Sound Fm.

7913 100 yds Downstream from
Lunch Under cliff w/ roots
Earth Sh.
7913 A- Underclay silt w/
Equisetum rhizomes
7913 B Shale, Carb.
Eureka Sound Fm

Not Equisetum - Rhizomes or whatever were not jointed.

7914 Creek Laminated 200' thick
clay silts & Sh.
Base of Sq 7914 A Base of Sequence.
Middle Sq 7914 B Coal, muds, non-laminated
From Sq up at 16+5T
200' of silty Sh, Coal
Veins.
Color of Sq very
dark grey
in 5 ft above
contact of
2 major coals
above this STRATIS Sequence

6/17/17

Eureka Sound Fm.

Top of Sequence 7914' C

Clay Silt & Shale

60' From Top of Carb Sequence

7940 Basalt Pebble in Silty w/ near pillow Sample Found in sandier interbed w/ Silt & Sh.

6/17/79

Eureka Sound Fm.

7915 50' Below confluence of Two major streams

Base ⇒ 7915A Fissile BLACK CARB Shale at base of 100' sequence of Shales

7915B Middle of Seq with No 7915A

7915C Top of Seq with No 7915A

7916 About 100' Below confluence

Ashy dark grey underclay w root & stem impressions.

This is same loc as 7910

6/17/74

Eureka Sound Fm

7917 A Chippy dark grey shale 2' above SS

7917 B Greenish grey mudst. 20' above 7917 A

7918 Calc. fossil sh 3'
[illegible]

Loc is 200' below (down-stream) from 7917

7919 200' Down stream from 7917 on west bank

Eureka Sound Fm.
7920 Major Fossil Plant Loc.

Averrhoites alb
in siderite concs
in a carb shale
& a' above dirty massive
ss
2' higher at top of
shale siderite concs
also Thuj. with Nuss
in silt - mudst.
Meta sequoia
Cercid. Johnsonia
Betula
& others

6/18/29 Census of locality
Upper bed siderite conc. in thin bedded
silt/stone at base of fine grained sandstone
ss 2' thick ||| |||| |||| |||| |||

bus, lower member 109 |||| |||| |||| |||| |||| |||| |||| |||| ||||
by zon thickness Cercid. and |||| |||| |||| |||| |||| |||| ||||
2 Qv. af. ||
Meta + Cercid. 17 Meta. oc. |||| |||| |||| ||
with another

10/18/79

Hor 8

7920 Lower brn/gray hard mudstone
2m below census loc.

13 Cereid
181 Av af
14 Monocot frag
1 Meta 1

3/14/24

7921 50' upstream from NCRT locality (7923) mudstone on A.F. Photo
From 1' Chocolate Br. Mudst. above 2 1/2' Coal
on 1' Dunky Stac Fair to developed from ufg ss.

Sapphire Chocolate Br. mudst. to massive 5' Thick SS w gypsum efflorescence

7922 Brown slightly sandy mudstone with coal fragments here and there & Thick
Carbonaceous dunky to salt. Grayish brown thick bed 1' ft

1879

7920 SHORT section of Arc
Plant [illegible] wells
[illegible]

nr. of 3010 m
~~2284 m ab. KANG. (2284 m above BASE ES Fm)~~

0. [illegible]
[illegible] SITST,
med grey massive,
CArb, lu white SulF
Efflorescence
becomes punky & slickensided at Top

1 m Shale at BASE
w siderite conc.s
weathered + greenish
Brown

7920 B - Avernheim layer
c-0.7 m from base
in siderite concs +
Shale
Shale becomes SITY @
~~[illegible]~~
~~[illegible]~~
bedded w/ 2-3' beds
in upper 1.0 meters

3 m SITST grading upward
into [illegible] bedded silt-
cs.

Thin coal ½" at base
pick up oil impregnation
to Basal 0.25 m
w siderite concs. +

6/15/24

7430

5.5m Coal + shale [illegible]
[illegible]
7.3m SS. Gy Bdd'd-sl. [illegible]
[illegible]
BASAL 0.2 m [illegible]
Ponc's. w
7420 c Meta, Cercid, [illegible]
Osmundá
Appx. 0.5 m. w Pc 175
[illegible]
8.6m Lignite on a sm. [illegible]
[illegible]
9.1m [illegible]
9.3m [illegible] of SS
[illegible]
7423 D [illegible]
[illegible]
12.2m [illegible]

6/16/39

ST 102 — Gravel — humid — subsp ARCTIC A

Stony clay & silty
S. Facing slope of 35°-
above small Trib to
Sweet Farm Creek

ST 103 — Gravel

Stony & [illegible] silty
slope of [illegible]
[illegible]

6/19/79

7924 [illegible]

10" Coal Substitutions

Top

[illegible]

0'-7' Vfg LS, Yell grey SS
w/ roots

7'-[illegible] Brown Crumbly
silty

[illegible] Brown fm. silt.

Located on Trail of
Brown Crystals at 7924 AB

[illegible] Dual
[illegible] 24' SD

[illegible]

= 796 A&B on air photo

6/19/79

7925 Bipole marked surface
of soil bed w/
[illegible] [illegible]
[illegible] [illegible]
surface.

Cercidiphyllum seeds to
be replacing PLATANUS.

7926 Pollen sample in Earth
shale 6" above lignite
seam at west River
Lignite [illegible] sample
on west River.

6/19/79

7927 Petrified Conifer wood
from ½" log.
Annual growth rings

JUST 40' Downslope from
797 in a shale sequence

Also associated w lignites
& Sandstone nodules w
Bivalves
Sea cones
Plants
Invertebrates

7928 Rolled sandstone from shale seq.
w/ lignitic interval
& layers of calcite in sinuous
axis

4/20/20

Stratigraphic position of Loc.
on air photo A 16436-58
Loc 7911 ~~is~~ plotted ~~see~~ base of
Eureka Sound Fm. 0 m

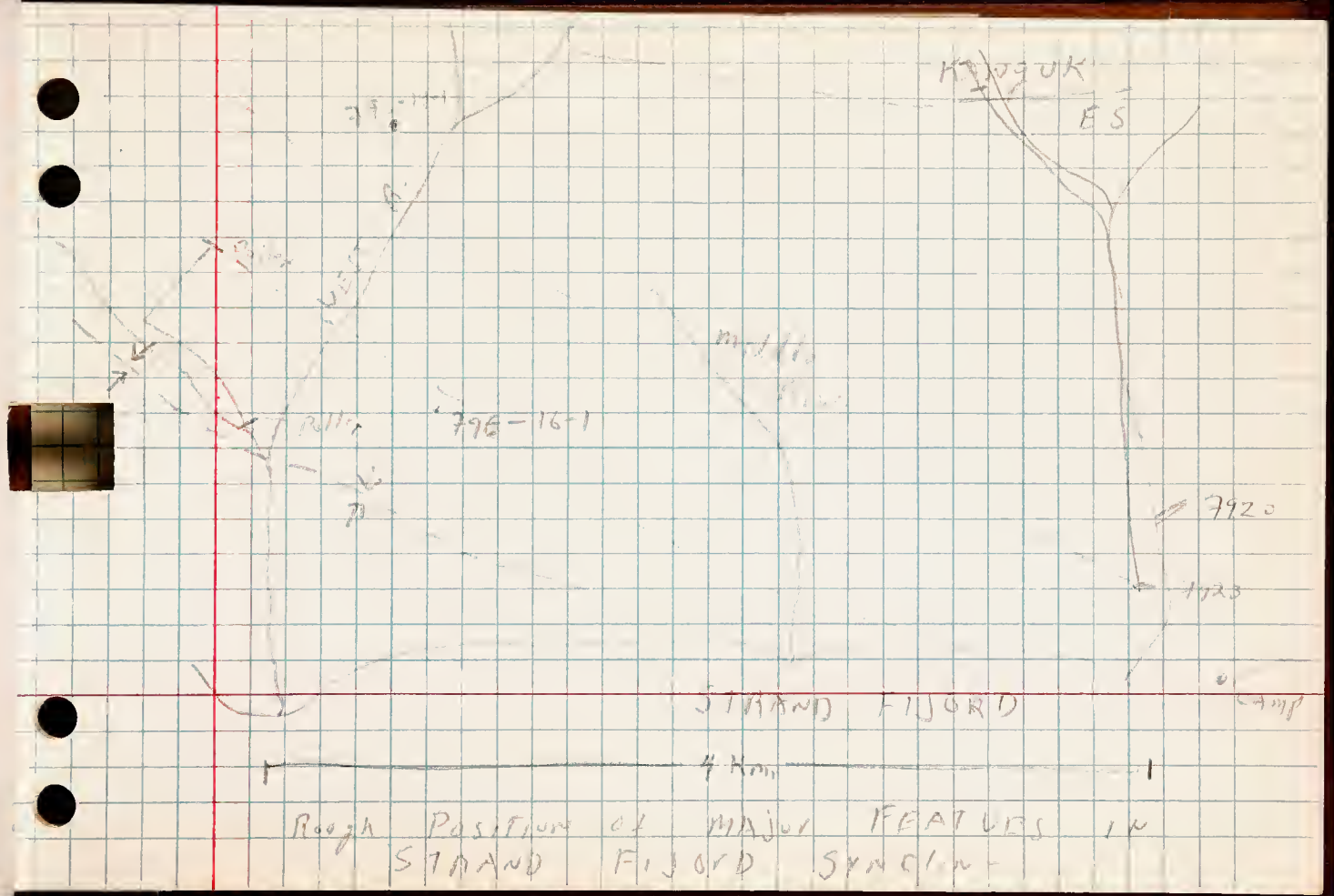
Major leaf locality on East
side. 2500 m above base
loc. 3920 6/17-18

loc 3922. Highest position for the
East Ridge. 2700 m

Lowest position for the
west ridge. 3400 m

Total Estimated Thickness of
Strata Exposed on
Fossil Hill ~~Ridge~~ to show it
is. 3900 m

$T = h \sin\theta$



Rough Position of Major FEATURES in STRAND FIJORD System

6/20/19

7929 Leaves from [illegible]
[illegible]
[illegible] just below
Coal.
Aspidiaceae
Indiacae
Betula
Large Corylopsis pollen:
Equisetum
Tilia wood w 3 mm
very pronounced growth
rings

7930 Just 200m east of 7929
on East side of Lovell
Creek

Large Alnus
Corylopsis pollen

6/24/79

Packed Camp at Strand
Fjord ready to leave by
12 M. but [illegible]
Pilot [illegible]
went on to Eureka to
refuel. Returned [illegible]
[illegible]

Flew over [illegible]
[illegible]
[illegible]
[illegible]
Flew to White [illegible]
[illegible] to [illegible]
[illegible]
[illegible]
[illegible] River
Pilot [illegible] not land
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] camp [illegible]
[illegible]
[illegible]
[illegible] their
helicopter ~~had~~ arrived at
8:30 with pilot willing to
fly us. Make it in 3 trips
slinging cargo

6/22/79

7931 Fisher Research Lab. Exp.
Fuel Cell Evaluation
Dr. Canada NSUD A-16734-63

from SIMI 4T
7932 Pollen Sample [illegible] a
[illegible] above [illegible]
[illegible] well and ferruginous
[illegible] bedded [illegible]
[illegible] places [illegible]
6/23/80 Appears [illegible]
Same [illegible]
Pollen [illegible]
[illegible]
[illegible]
Regular pores [illegible]
[illegible] of tubular [illegible]
[illegible] as braided strands
[illegible]. Some [illegible]
reduce [illegible] but in
very minor quantity.

6/22/16

7/23/79

7933' Hill east of Jump Creek

Traces of [illegible]

[illegible]

[illegible]

No [illegible]

[illegible]

- 2 km north Hill of Flags
  - br. [illegible]
  - [illegible] (3) [illegible] by
  - 2' [illegible] x [illegible] sheet
  - [illegible] same as that
  - sampled [illegible]

Loc. 7933 Radiation Shot
Large area around Center
of Slide Anticline
has been misapplied as
[illegible] by the
[illegible] reality it is
partial [illegible] and

6/23/89

6/24/79

7934 Rolled Sample from Shales 1' above coal (Lyell) above light grey quartzite, 1.5 SE (6 ft) roots, Lepidodendron sp. in quartzite

1 Km west of Stuart Robinson Bay

On Canada Map Repro. Center, Dept of Mines & Resources Photo A-16987-2

W of 7934 Section becomes Collier, with fine grained light brown shale & yellow brown sltst, light, possibly into Eureka Sound Fm.

East of this outcrop more like typical Collier

~~E.S. Fm.~~ SCT

6/20/24

5104 White Mountain
Sandy Stone
Fleischer
Wenz Inc. 7934

5105 White Mountain
Sandy

1 Km East of
Slide Active Ramp

Both are
Drainage divides

5106 1 Km West of
Slide Active Ramp
on Dry clayey Top of
low divide between
2 Creeks
Divide may be 60'
higher than creeks.
Cerastium alpinum

6/25/79

7930

7935

abt 1800 m
above base
ES. Em.
using
Thorslevensen's
map 1298A

5/25/17

5/26 [illegible]

[illegible]

at loc. 2 of 3
EAST BANKS of HOT
weather Creek.

7937 EAST BANK HOT WEATHER
Sheath
— PKFD A-16734-62
Excel
Sealed Entry
Expansion
Equivalent Aluminum
waterproof
Pushed on anvil block
from Subgrade Conc. to
[illegible]
3#1
+ 5 yd. Spacer to
[illegible] of Accel

Dip ed 12° to S across
S (west) Hot weather
Creek from loc.

7938 Concrete to Hospital
30' Below 7937
Equivalent

6/25/79

7934 Kaiparowits Formation
Locality Ew

Pollen from laminated
mudst, 1.5 feet below
a 6 inch COAL STRM
at a cut off interfluve
just upstream and the
-leaf loc. 7937.

SW Photo 2-16734-6

[illegible]
[illegible] E5 Fm
as [illegible]
[illegible]
[illegible]
[illegible]
This is SAME UNIT as we
recognized at 7934 and
to the WEST.

Choi (in lett. 3/1/82) Reports
Camp - Macstr. age on
Dinos.

6/26/79

~~2939~~

- PACKED CAMP and moved at 12:00 M. FLEW ~~NW~~ E 45 bx E 45 around N. end of SAWTOOTH RANGE
→ N. POINT 10,020' LANDED in SOUTH FORK AREA 2 mi SW. SET UP CAMP 9,200' MAP.

6/27/79

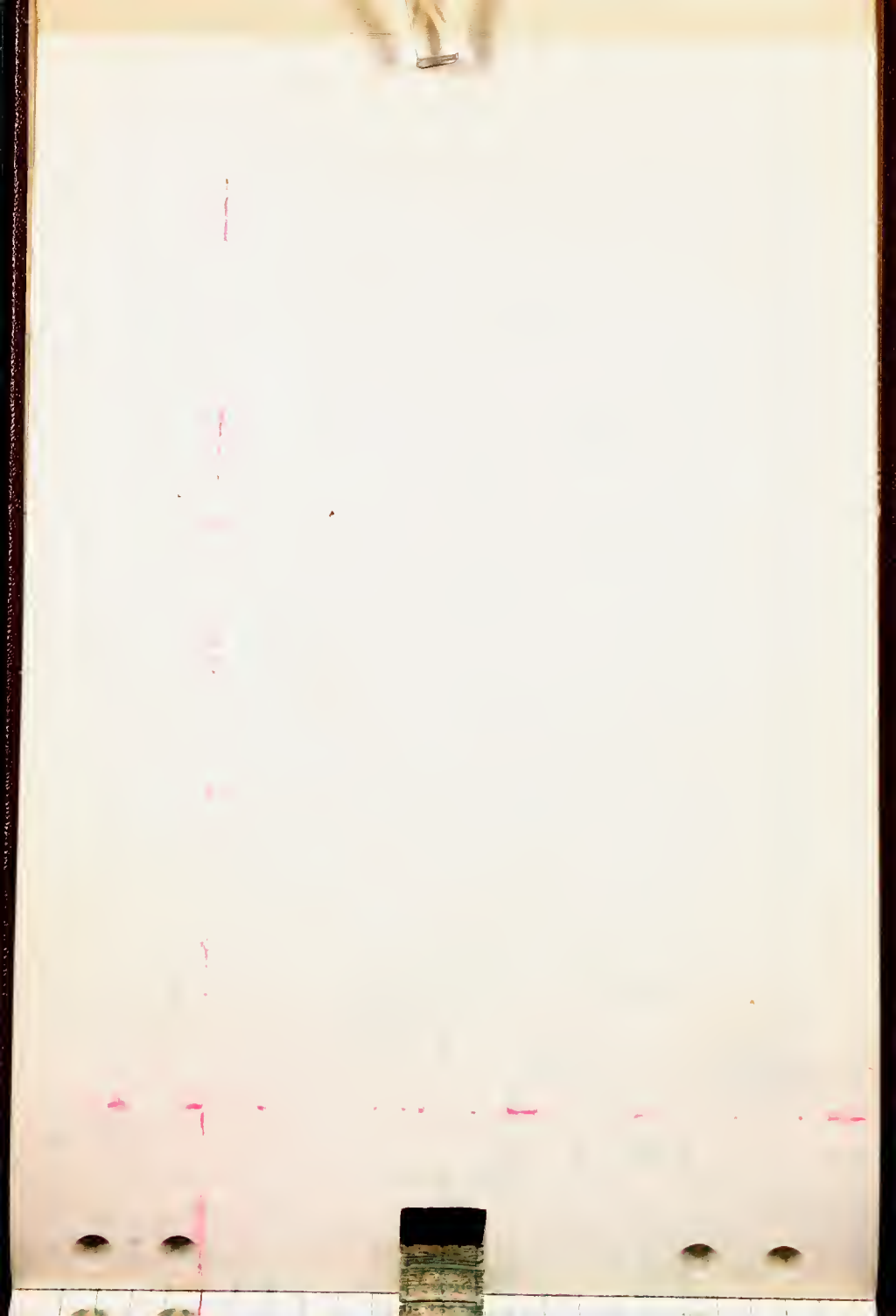
7939

WEST FORK OF "BIRCH CREEK"
of "Moose" River
SOUTH BAY Phots 1662-69

Eureka Shale Fm.
Fossil PLANTS at BASE of
12 foot sect of
DUNN Colored Limestone
Basal 3' is Lam X
grades thru wavy L to
X bedded Sequence
LIGHT brn on brkn
Surfaces.

FLORA
Betula DOMINANT 90%
CARYA - 2 LEAFLETS
EQUISETUM
STEMS or MUSCI
Dip 10° to WEST

7939 1000' DOWNSTREAM
in Same Limestone
Bed
CHANGE to Dk GRY SHL
with
EQUISETUM



1940 Rollen Sawmill
A - from Mammoth Silt
equiv 40' above
Level of Birch Creek
B Alluvial Sand at 2' below

Sand Point
Eureka Sound Fm

1941 50' Double Strand
Coal Transmission
A Main
Tie Co
Aluminum Sp
Wood Sp
Aluminum
Arcmid ?

Eureka Sound Fm

6/22/79

Eureka Sound Fm
Here has well cools
mucks shales, dk tan, ly
brn, vf s, sandy
Sequence like cools w
a marl strat
base of sandstone
[illegible]

looks like log electric
supply with a resistivity
phase reversing at
top of shale
[illegible]

6/28/79

7942

7944

6/28/79

7921 S.

7916 Brick house in
dark br. grey SS

6120 ft

Slope

Drake beside boulder on stony N facing slope

6/28/79

7947. Almost in float [illegible] of ss by stream

Should be examined carefully to see if really almost.

The sequence at South Davy is
predominantly deepening or at
least starved of clastics.
The predominant ss [illegible]
[illegible] [illegible] [illegible]
[illegible] marls to ss.
[illegible] dep finds the dep
of ss.
This is 500 m at most in
thickness probably more like
3000 m. A very different
[illegible] the Eur[illegible]
[illegible]
[illegible] should perhaps
be considered a separate
[illegible]
[illegible]
[illegible]
[illegible] valley.

6/29/39

5108 Draba White Ft.
on steep stony slope
facing S.

Compact cushions
of rosettes & short
stems
2.5 yards ?

Draba corrugata

South Bank
Birch Creek N Side

6/22/49

7948 Betula (some very large)
Chamaecyparis ?
Equisetum
Typha ? Philonotis
in Fuel cut of
Birch Creek Basin
[illegible]

[illegible]

[illegible]

[illegible]

7948. On E. bank of Birch
Creek just [illegible]
[illegible]
large Hemlock [illegible]
[illegible]
Mnium [illegible]
Equisetum
Betula
Metaseq via (trace)

Photo A [illegible]

6/28/99

Mac's pro-c.

796-29-1 27 in. x 71 c.y. 1274 lbs.

54. Miller

[illegible]

796-29-2 150 yards

[illegible]

6/32/74

Flew from South Bay at 12:30

Ac
Lake beds continued south
to vic. of Mount Moore
hence Devils Canyon beds
again in evidence.

Landed at 15° on
Scott Slope at Bay End
Set up tents in high wind

7/1/74

Year Event Age

1900 Hulsbos - 1st small boy
[illegible] Holland Tunnel
S. of Camp.

[illegible] minimal [illegible]
Fuel [illegible]

(See 9/5c
7/12/74)

+12 Loss [illegible]
[illegible]
[illegible]

[illegible]

7/1/79

Page 1 cont'd

in Sandstone since
[illegible] interval to
[illegible]

+7 Conifer trunks or
limb sections w/
growth rings from 30 mm
from SE Pond to 45 m
below West 3-13-11 Vert. Site
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Fossils occ.
[illegible] in clay ironstone
[illegible] silt
[illegible] coal [illegible]

Seq. consists of
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

7/1/79

Fossil verts here found
Gn coarser clastics (SS-SHST)
in association w sulfide
nodules

The concretions here are
concentrated in a zone at the
base of the bed. Most
immediately above the
coal bed are small spindle upward
and basally pointed
nodules which are
elongate parallel to
the bedding. They are
composed of
calcium spongy masses of
plant matter often pelleted
These objects may
have originally been burrows
or boy flow marks - however
perhaps - rather than inferring
any specific
-ly, this would indicate
- that the area was covered
through flowing water during
the Eocene period in which
water acidity could The
Eureka Shale formation have
been less acid & better
drained in the VATIC

7/1/79

PHASES OF EURASIA TECTONIC
EVENTS AND THIS HAVE
ALLOWED FOR PRESERVATION OF
HYDROCARBONS

7/3/79

This is base of Shale - Coal unit in Mail's section. Acc. to Mac it is Lower Bridgerian based on vert.

7952

7952 (Cont'd.)

Indicating that at least

7/3/79

7953 @ LEAVES IN CLAY IRONSTONE
2 m above Dip Slope COAL

METASEQUOIA
? HAMAMELID LEAF

ON PHOTO A 16606-86

THIS IS THICK COAL UNIT
JUST below BASE of
SHALE-COAL UNIT IN
MAILS SECTION.

ACC. TO VERTS IT (COAL) SHOULD
be on bdy between
WASATCHIAN - PALEOCENE(?) AN.

7/3/79

TREE RINGS APPEAR TO BE EXTREMELY Uniform in Thickness More so than normal Taxodioid Conifers? This may be a function of control by onset of Arctic night which would be invariable. If neither climate or rainfall were limiting then only source of variation ~~may~~ would be health of individual tree - insect attack, fungal damage in a year.

Will measure ring widths & variation against modern Taxodioid conifers.

7/4/79

Shot off flare for 4th.

7/5/79

7/6/99

7954 Fractures Pleasures
E West 7-18-7
Photo 1666 C-6

Second volcanism in
Clear mountains

Dip of beds W side of
[illegible]
E 30° W
[illegible]
[illegible]

Main [illegible]
[illegible]
[illegible]
[illegible]

7/16/79

7955

7/7/39

7958 From Scarp of Burnet

2nd [illegible] from above

Photo No A-16728-95

[illegible]

7/7/79

57
1
4
6
3
1

7959

4

A-16728-95

7/7/79

7960 Same setting as [illegible]

Cut from [illegible]
[illegible] in a [illegible]
above the 1st [illegible]
Coal below 10-6
This is very level.
[illegible]
[illegible]
[illegible]

Photo N-16728-95

7/8/79

Sunny 5°C

7961 N Nose of Anticline
Located on photo

40' Below Mary's Cryptobed
=MD 2X 70'-100' Above
Loc. 49 MAC WEST

In a sandy interval
F.G. friable, clayey SS
w/ clay ironstone conc's.
Sandy intrval hive
Dot. 40' thick w/ minor
Carbonaceous or lignitic
levels.

Platanophyllum nobilis !
Cercidiphyllum arct.
Acer sp.

7/8/79
P.C. 50°C

7962 East side of UNNAMED STREAM Valley Same level Same level as 7957 but 1 shoulder further South

Added TO Flora:
Platanophyllum nobilis

also here
Meta seq
Carya Ant. - Some look later.
Cercidiphyllum
Acer
Betula like leaf
Leguminosa
Salix sp.
Unn. Conifer w/ entire margined leaf

From Valley floor to ridge crest is a [illegible] interval

About 50' above Creek

Photo A-16606-86

7/8/79

7963 SAME STRAT level & SETTING as 7962 but 1 Shoulder further south (downstream) Almost 50' above Creek

Poss. Cyathaceous fern
Cyathea ?

Acer
PLATANUS
Cercidiphyllum
Equisetum
Onoya antig
Alnus rugosa
Sequoia or Glyptostrobus

Virtually frost free [illegible]

Photo 16676-86

7/8/79

7964 On same shoulder as 7957 but 1 coal higher (abt 30') clay ironstone concs in a sandy interval of abt 20' above the coal atop 7957 interval app 80' above creek level

PLATANUS reynoldsii
PLATANOPHYLLUM nobile
CHAETOPITYS of microphylla
ACER sp.
CRAETAEGUS
ROSACEOUS leaf
CARYA antiquorum
CINNIBERopsis ISONERVOSA ??!

PHOTO 16603-86

7/9/77

7965 MARY'S HUBBACHYUS LOCALITY
= MD 4

3 NEW TAXA of LEAVES

Sandy w/ IRONSTONE
FOSSILS
30' of Sandy strata downward
to [illegible]

Pinnate, ENTIRE MARGINED, 2°
Pinnate, ± closely spaced INDURATED
TEETH, fine areolation
(Eolastraceae, Rosaceae ?)

Collected this loc. on 7/10

Temp 0°
Cloudy
wind S 5-4

Prunus sp. CORIACEOUS
Symplocos ? sp.
Cercidiophyllum sect.
Metasequoia

7/10/79

7466

"South Bay Facies"

Unit is [illegible]

Interbedded [illegible]

In Color with [illegible]

[illegible] SW ES.F.

Alternations are tol. > Coal

Coals ←

Thin - lge beds

Lge beds

Planar reworks in

Erosion very large up to 2in

Planarbis & other [illegible] high spired

Below lowest VCKT bed

about 250' feet

in what has been called

the Middle "MARINE" UNIT

Looks like South Fork Facies

Unit in [illegible]

coal [illegible] in Alton coal

Interval of 20'

Wood just above (3-5')

This interval in a Coaley

Sequence.

7/11/79

7967 Mialls [illegible] Sec #5
[illegible] E. side [illegible]

River **Braskeruds River**
Pollen Samples through lower
213's of face on river.

Several hundred meters N. of
~~Mr~~ Mialls Measured Section #5

~~Mialls~~.
Unknown Unit
Mialls Section on
River East Side

7967a (Pollen sample) Silty Unit above
10' friable f.g. sandstone
80' feet from base of
exposure at river
level. Lower Eocene

7967b [illegible] Invertime zones
in [illegible] CARB. shale
about 2' below sample at
165 ft above ~~base~~
~~Metasequoia~~
Cercidiphyllum
Betula
Macginitiea ?
Equisetum sp. ?
Sequoia or Taxodium
or Cranial's Metasequoia
LATE K TO Early Paleocene

7/11/79

7967 c Pollen sample

Dark grey, Br, wh, ~~w~~fissile Carb Shale 2' above a Coal (2') with wood and a silicified layer in the base (4" thick)

20 m above 7967 a

7967 d Pollen sample ~~c~~ of 25 ft above

7967 e Pollen sample 1/2 way to top of face of SILTY CLAY below a coal

est abt 200' above base of face

Dip of Section very gently flat here

7964 f Cyclolandis Metaseq nova + Betula - Corylus type

1 of f

7/11/87

7967 g Pollen Sample
Base of dark brown
carbonaceous sand
top of hill about 60 ft

7967 k 280' above cliff base
Quercuxia angulata in
clay ironstone in
carb. fine-gr. ss.
Floating aquatic, cool climate

Upper 1/3 of sequence
here becomes
[illegible] and sand alter-
nating seq of sands
[illegible]
[illegible]
[illegible]
[illegible]
Sands [illegible]
[illegible]
[illegible] S.

7/11/75

7968 Ponion Sample
Eureka Quad. Nev.
Mount Jefferson

7968 a About 1/2 way up
the ridge in a gray
multi in an irregular
1-2" thick stratum of
aphanitics.

7968 b From a grey multi band of
about 10' about 2½
[illegible]

30 yards above main Discovery
just above Discovery Locality
at Ponion x West

Photo A-16738-10

7/11/79

7959 Principal [illegible] Scarlet

STRATHCONA FOREST ON WEST SIDE

of SCHAFFHAUSEL Hill.

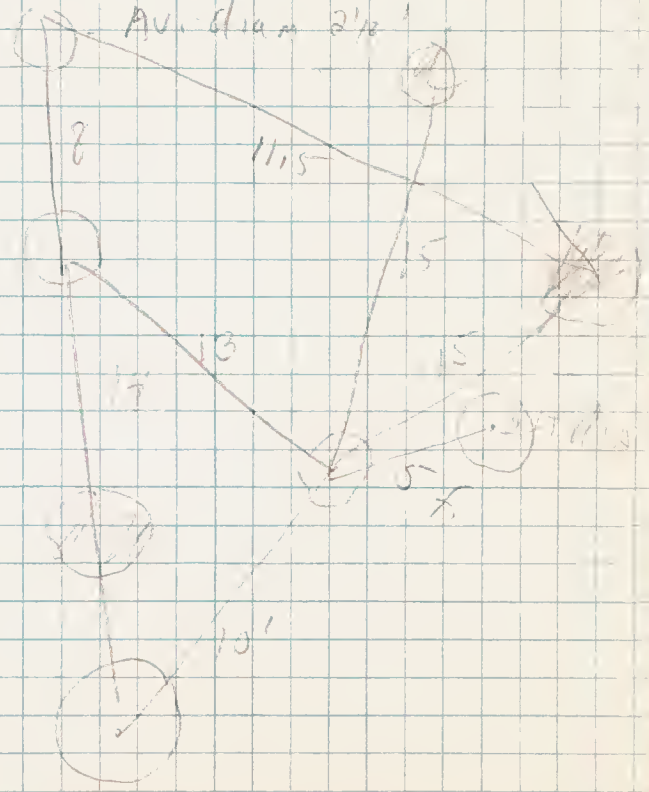
7969a →

[illegible] 200 yds of [illegible]

in ground .05 [illegible]

[illegible] Stone in Canada

[illegible]



Av. dist. 15' apart

7/11/79

7969 Continued

E. S. [illegible]

7969 [illegible] Above [illegible] 100'

SS [illegible]

Retouch Photo 16676-106

7/11/79

Boston

1970

Ballivy, [illegible]

Geol Survey Can, Paper 75-1, Part A,

p 141, Sect. p 142.

[illegible] - Eureka Sound

Transition

Marine [illegible]

[illegible] Arctic Shale

[illegible]

Upper part [illegible]

[illegible] Bay Fiord

Sand

30 m of yellow-green

[illegible] shale & silt [illegible]

w/ limonite crusts

Thin coal [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Coal 2'

[illegible]

Clay shales [illegible] coffee

Top of section

CARB shales 2' above

This is lowest coal in sect. app 75 m

above base

7/1

7970

SS Channels & drab
deltaic Sed Bed
[illegible]
[illegible]
White SS Channels
Accompanying [illegible]
Carbon [illegible]

Should This be Eureka
Sand of Kwagunt

Pick Eureka Sand

Same sequence of Drab
coffee & carbon colored
[illegible] SS
[illegible]
30 m

This same type of [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
below good [illegible]
FLUVIAL PART

Dips AT Ko-Tes CONTACT 45° W
Channel 30m above base 35° W

7/11/79

7970

Base of Coal 250

DN Photo 16676-106

7/12/79

7950 (Again)

Fourth Pine Survey

7950 (1) Center prob. Taxod. wood.
2 Shots

(2) Center [illegible] wood.
(3) do
(4) do
(5) do
(6) do
(7) do
(8) do MAY NOT be TAKEN.
(9) do
(10) do
(11) do

7/13/79

RAIN & wind 0 to 3°C
waiting for helicopter
no field work

7/14/79 3/4

7971 Mills measured sect.
SW end peninsula between
Stinkhorn & Lower
Eureka Sound Fm.
Lower unit of fm to
SC. Shf sandy
dom. Prod. in cobble
[illegible]
[illegible]

25 m above base of mud

Some ironstone [illegible]
7971a Abt 80 [illegible] base of

7971b Pollen sample [illegible]
[illegible]
[illegible]

30 m above to see 5 of mud

7971 (continued)

7/14/79

Sample: 13 cc (+)
5°C

7971c 120' Above chalk base
in Cenb. Is. Nodules very dark grey
36 m above bo. diverse variety

7971d Bottom Sample SLATY
Shale Lens' mudst
68 m above bo. w/ Is. Nodules
225' above base

7971e Bottom Sample 300' above base
Med. grey fissile mdst
w/ interbedded dk. Is. nodules
90 m Nodules

7/15/79

7973 STENKIL QUARRY

(Cont'd)

7973a [illegible] (4) (10) (12) (12)

(170) (12) (19)

(38) [illegible] (6)

(37) ULMACEAE (11)

(5) Cordate, cat leaf

(3) Ampelopsis type III

Dark gray Mud abt 2½' thick

40 ± 50' below cliff abt 5' above

7973b Magnolian leaf [illegible] Pollen

7973c [illegible]

7973d [illegible]

[illegible]

Photo A 1685-46

Mile VENDOME ISLAND 77°22'N;
83° 28' 45" W

3/15/79

39:30 – Float. Block Leads f

Sand above ~~cats~~ Coal.
10 m above 29735'
Float
Coarser sediment
20 m.
Veins
Distinct cross bedding
Hangmen's ~~top~~ bottom

Very large ...
very hasty deposition

Lack of ...
...
extensive ...

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~~Can~~ notify me of RESULTS C/O. POSt
RESOLUTE.

LEO HICKEY

.9

3.2 km
.98
2.7 km

2.4
0.2
1.7 km

50°	1.1 × 0.8	.88 × .74	.87
35°	.4 × .4	.32 × .47	.18
15°	.7 × .8	.56 × .21	.15
		1.76	1.20 km

3.9 km of Eureka Sound F.m

4.21 .95 cm 4.1

1 cm 4.21

.365
.95
1825
3285
3.467.5
3.47 km

3.47 km
4.21 cm

1 cm on photo = 0.8 km

.79
1.3 | 3.00
1.4
140

1.18

8
4.21 | 3.400

3